L Number	Hits	Search Text	DB	Time stamp
-	18	("5341293" | "5347632" | "5450593" | "5455953" | "5490244" | "5586260" | "5594921" | "5617565" | "5673322" | "5680452" | "5710918" | "5715314" | "5717923" | "5724424" | "5761648" | "5809242" | "5838790" | "5948061").PN.	USPAT	2002/08/01 18:48
-	32	(ereceipt or (digital adj receipt))	USPAT	2002/08/02 14:42
-	178	(electronic near2 record near5 (repository or database or file or storage))	USPAT	2002/08/02 14:43
-	409	((electronic or digital) near2 record near5 (repository or database or file or storage))	USPAT	2002/08/03 19:53
-	110	(((electronic or digital) near2 record near5 (repository or database or file or storage))) and transaction	USPAT	2002/08/02 10:32
-	46	((((electronic or digital) near2 record near5 (repository or database or file or storage))) and transaction) and (merchant or seller or retailler or vendor)	USPAT	2002/08/02 10:33
-	4	(((((electronic or digital) near2 record near5 (repository or database or file or storage))) and transaction) and (merchant or seller or retailler or vendor)) and (digital near2 signature)	USPAT	2002/08/02 14:44
-	15	("5120906" | "5448044" | "5502576" | "5561282" | "5657389" | "5774663" | "5774872" | "5790674" | "5799283" | "5832458" | "5832464" | "5892824" | "5910988" | "6032137" | "6040783").PN.	USPAT	2002/08/02 10:35
-	538	ipos	USPAT	2002/08/02 14:46
-	0	ipos and (electronic near2 record near5 (repository or database or file or storage))	USPAT	2002/08/03 19:54
-	0	ipos and (((repository or database or file or storage) and transaction) and (merchant or seller or retailler or vendor) and (digital near2 signature))	USPAT	2002/08/02 14:45
-	538	ipos or (innovative near POS)	USPAT	2002/08/02 15:51
-	0	(ipos or (innovative near POS)) and (705?/.ccls.)	USPAT	2002/08/02 15:51
-	4	(ipos or (innovative near POS)) and (705/?.ccls.)	USPAT	2002/08/02 15:51
-	6829	(electronic near2 (record or paper or document or receipt or file))	USPAT	2002/08/03 19:54
-	5526	(electronic near2 (record or paper or document or receipt))	USPAT	2002/08/03 19:54
-	621384	repository or database or file or storage	USPAT	2002/08/03 19:54
-	4062	((electronic near2 (record or paper or document or receipt))) and (repository or database or file or storage)	USPAT	2002/08/03 19:55
-	6802	(purchase or transaction or buy or order) near5 (merchant or seller or (finacial adj institution) or bank or distributor)	USPAT	2002/08/03 19:57
-	319	(((electronic near2 (record or paper or document or receipt))) and (repository or database or file or storage)) and ((purchase or transaction or buy or order) near5 (merchant or seller or (finacial adj institution) or bank or distributor))	USPAT	2002/08/03 19:57
-	288	((((electronic near2 (record or paper or document or receipt))) and (repository or database or file or storage)) and ((purchase or transaction or buy or order) near5 (merchant or seller or (finacial adj institution) or bank or distributor))) and (internet or online or network)	USPAT	2002/08/03 19:57

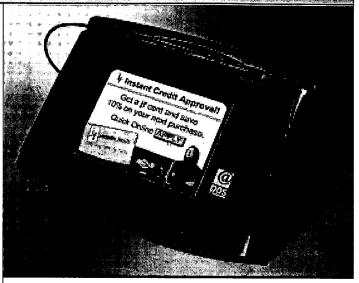|				
-	112	(((((electronic near2 (record or paper or document or receipt))) and (repository or database or file or storage)) and ((purchase or transaction or buy or order) near5 (merchant or seller or (finacial adj institution) or bank or distributor))) and (internet or online or network)) and (digital adj signature)	USPAT	2002/08/03 19:58
-	109	(((((electronic near2 (record or paper or document or receipt))) and (repository or database or file or storage)) and ((purchase or transaction or buy or order) near5 (merchant or seller or (finacial adj institution) or bank or distributor))) and (internet or online or network)) and (digital adj signature)) and (claim or dispute or return or exchange)	USPAT	2002/08/03 21:31
-	18	((((((electronic near2 (record or paper or document or receipt))) and (repository or database or file or storage)) and ((purchase or transaction or buy or order) near5 (merchant or seller or (finacial adj institution) or bank or distributor))) and (internet or online or network)) and (digital adj signature)) and (claim or dispute or return or exchange)) and (electronic adj record)	USPAT	2002/08/03 21:31

When the POS meets the Internet

The worldwide web plays a major role in the clicks-and-mortar environment but it is also quickly advancing to the real world of checkout stands. @pos' web-enabled iPOS TC (Internet point-of-sale transaction computer) offers merchants Internet capabilities to extend in-store service beyond today's limitations.

Payment solutions for now and later

With @pos' 'dual channel' technology, the iPOS TC connects to the host for transaction payment processing involving credit and debit transactions, electronic signature capture, debit PIN entry, line item display, and interactive message prompts. The second channel connects to the Internet, via a PCMCIA Type II card (i.e. 802.11b wireless LAN) or built-in Ethernet, for advertisement download and display, HTML-based program operation or to enhance the store's local network configuration.

With a virtual PIN pad for debit payment option and digital signature capture for credit card transaction, the iPOS TC reduces the cost of fraud and repudiations for the merchant.

The iPOS TC's powerful processor and expansion capability supports @pos' optional smart card reader module. It attaches to the iPOS TC and bring various value-added application programs to coexist on the terminal. Proven by major merchants, the iPOS TC with its EMV certified smart card reader is the solution to turn a point-of-sale payment terminal into a point-of-service host for customers.

The web-enabled iPOS TC brings merchants online for value-added functionality.
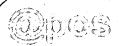
Promoting at the point-of-sale

The iPOS TC is the perfect vehicle to promote in-store sales, brand corporate identity and provide instant discounts to customers. Colorful display messages can offer instant online credit card approval or even online store contests.

Because it supports GIF and Java applet graphic display, the iPOS TC gives customers an enhanced multimedia shopping experience.

Easy integration into existing platforms

The complete and easy-to-use @pos software development toolkit provides merchants seamless integration into existing major PC or major POS platforms. The optional iPOS software suite is designed from industry OPOS or JPOS standards that allow developers to use C/C++, Java or Visual Basic to quickly program transaction processing functions to bring the iPOS TC to life.

Innovative web technology for the point-of-sale

Technical Specifications

Display/Signature Window
- Screen Technology
  - Resistive, transparent, pressure-sensitive touch screen
- LCD Size
  - 4.5 in x 3.5 in, 5.7 in diagonal
- Color LCD Resolution
  - 320 Hor. x 240 Ver. pixels
  - LCD with backlighting: supports text & graphics
- Touch Pad Resolution
  - 4096 x 4096 x, y coordinates (903 Hor. x 1238 Ver. dpi)

Terminal Interface
- Auto detect and auto selection of RS-232 or RS-485
- One RS-232 port
- One RS-485
  - For IBM 46xx series cash register
  - Supports IBM Tailgate protocol
- One self-powered USB slave port, supports 3 endpoints
- One aux port for RS-232, RS-485 or USB pass through

Network Dual Connectivity
- PCMCIA Type II adapter
- Onboard 10-Base T Ethernet

Physical Characteristics
- Dimensions
  - 9.6 L x 6.8 W x 3.6 H in (24.4 x 17.3 x 9.1 cm)
- Weight
  - 1 lb. 11 oz (0.8 kg)

Memory
- ROM, 8MB Flash Memory (expandable up to 32MB)
- RAM, 64MB SDRAM

Processor
- Intel® StrongArm 1110

Magnetic Stripe Reader
- Bi-directional 3 track reader

Security
- Characteristics
  - Secure key injection, tamper-resistant security
- PIN Encryption
  - Triple DES or DES
  - Master/Session or DUKPT for key management

Power
- Requirement
  - Regulated 12V DC, 1A rating
- Power Source
  - 12V DC regulated, Domestic 120V AC input
  - 12V DC regulated from ECR
  - 12V DC, 1A rating Universal Power Adapter

Firmware
- Real time operating system
  - RTOS environment
  - PersonalJava Virtual Machine
- Transaction Applications
  - posPortal
- Advanced command set interpreter for point-of-sale payment process management

iPOS Software Suite (Optional)
- posBuilder, posVisual, IBM 4690 SDK
- Operating Systems Supported
  - DOS, Windows 98/2000 and NT 3.51 or higher
  - IBM 4680/4690
- Formats Supported
  - BMP and JPG for graphics
  - SIG, CMP and VBC for signature
- Object Tools
  - Support for VBX, ActiveX, OPOS and JPOS

About @pos

@pos (OTC BB:EPOS) is a leader in secure, interactive electronic transaction technologies. The company provides signature capture products, web-enabled payment platforms, smart card interfaces, encryption engines supporting DES and Triple DES, and an extensive suite of software tools. With complete end-to-end solutions, @pos offers internet-based software and hosted services, under its Crossvue brand, for loss prevention and electronic receipt storage and retrieval. @pos currently services the retail, government and banking market for applications that include electronic signature capture, debit and credit payments. For more information, see www.atpos.com, email to info@atpos.com, or call 408-468-5400.

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